

Matavalam Hemanth

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2020 - 2024	B.Tech	Indian Institute of Technology (ISM) Dhanbad	7.13/10
2019	Class XII(TSBIE)	Narayana Junior College, Hyderabad	942/1000
2017	Class X(BSEAP)	Keshava Reddy school, Tirupati	9.5/10

Work Experience

Jindal Stainless Limited | Software Development Engineer (GET – Digital & IT) Sept’24-Present

- Developing a **Safety Administration System**, a full-stack web application comprising **Training Modules**, and **Incident Management** for plant-wide safety digitization, using **React.js**, **Node.js**, **Express.js**, and **MS SQL Server**.
- Designing and implementing secure **REST APIs** with **JWT-based authentication** and **Role-Based Access Control (RBAC)** to manage access for users such as workers, safety officers, and administrators.
- Creating responsive, modular UI components using **Tailwind CSS** and integrating dynamic dashboards with **Chart.js** to visualize training status, incident trends, and audit scores.
- Automating manual safety workflows, including training assignment, audit scheduling, and CAPA tracking, reducing reporting time by 60% and enhancing compliance visibility.
- Collaborating with Safety and IT teams for requirement gathering, iterative development, testing, and deployment as part of the plant’s digital transformation roadmap.

Key Projects

Task Management System | Full Stack Project

- Developed a full-stack application using the MERN stack to streamline task organization and improve productivity, implementing user authentication, real-time updates, and CRUD functionalities.
- Optimized back-end APIs and front-end components for faster performance, resulting in a seamless user experience.
- Tech stack used: ReactJS, MongoDB, ExpressJS, NodeJS, and Redux

Blogspot | Full Stack Project | Team-Project

- Built a responsive blogging site where users can create blogs and share with the public.
- Nodemailer and JSON web tokens were used to implement authentication and password reset emails from scratch.
- Tech stack -ReactJS, PostgreSQL, ExpressJS, NodeJS.

Relevant Coursework and Technical Skills

Courses	Computing: C Programming, Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, and Computer Networks.
Skills	Programming Languages: C, C++, Python, JavaScript. Web Development: HTML, CSS, ReactJS, Node.js, MongoDB, Express.js. Databases: MySQL, MongoDB, MS SQL. Tools: Git/GitHub, VS Code.

Achievements

Scholastic	<ul style="list-style-type: none">Ranked among the top 0.5% among a pool of 1.2 Million applicants in JEE Mains’20.Secured an All India Rank 5540 in JEE Advanced’20 among 0.15 Million shortlisted candidates.Secured a All India Rank of 432 in National Defence Academy Examination’19
Managerial	<ul style="list-style-type: none">President, Students’ Gymkhana, IIT(ISM) Dhanbad (2023–24).Led 30+ student bodies and managed annual technical, cultural, and sports events with 5000+ participants.Oversaw policy, execution, and budgeting of student-led initiatives campus-wide.Co-Coordinator of Srijan 23- Biggest socio-cultural fest of eastern INDIA.Joint Secretary, Durga Puja Committee, 2023,Streamlined event execution with over 8000 attendees across campus.
Others	<ul style="list-style-type: none">600+ problems solved across Codeforces, LeetCode, CodeChef, GfG, InterviewBit.Earned a Badge in SQL 50 in Leetcode5 in Problem Solving on HackerRank.